

EXERCISE

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NOT A REAL WORLD EVENT *This is part of an asteroid threat exercise conducted during the 2015 IAA Planetary Defense Conference.*

Small Fragment of Asteroid 2015 PDC Headed for Impact Near Dhaka, Bangladesh

Paul W. Chodas (International Asteroid Warning Network/JPL)

Press Conference, August 27, 2022

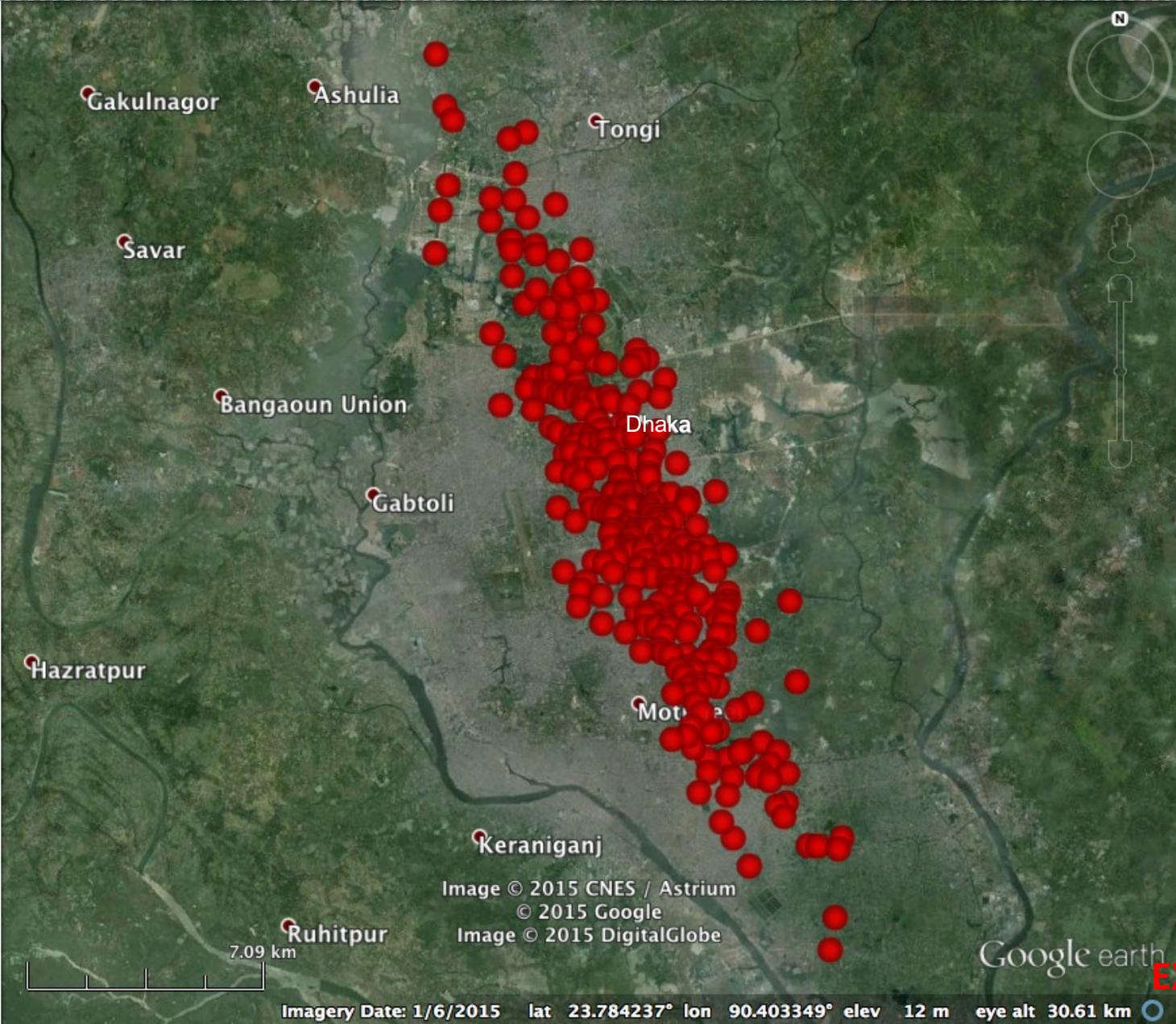
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Fragment Will Impact Over Dhaka

- ▶ Based on radar measurements from NASA's Goldstone station, IAWN predicts that the small fragment which broke off asteroid 2015 PDC during its successful deflection will enter the atmosphere over Dhaka, Bangladesh on September 3, 2022 at around 9:50 am local time
- ▶ Dhaka is the 10th largest city in the world, with over 15 million people estimated to live in the area

- ▶ For more info: <http://neo.jpl.nasa.gov/pdc15/day5-3.html>

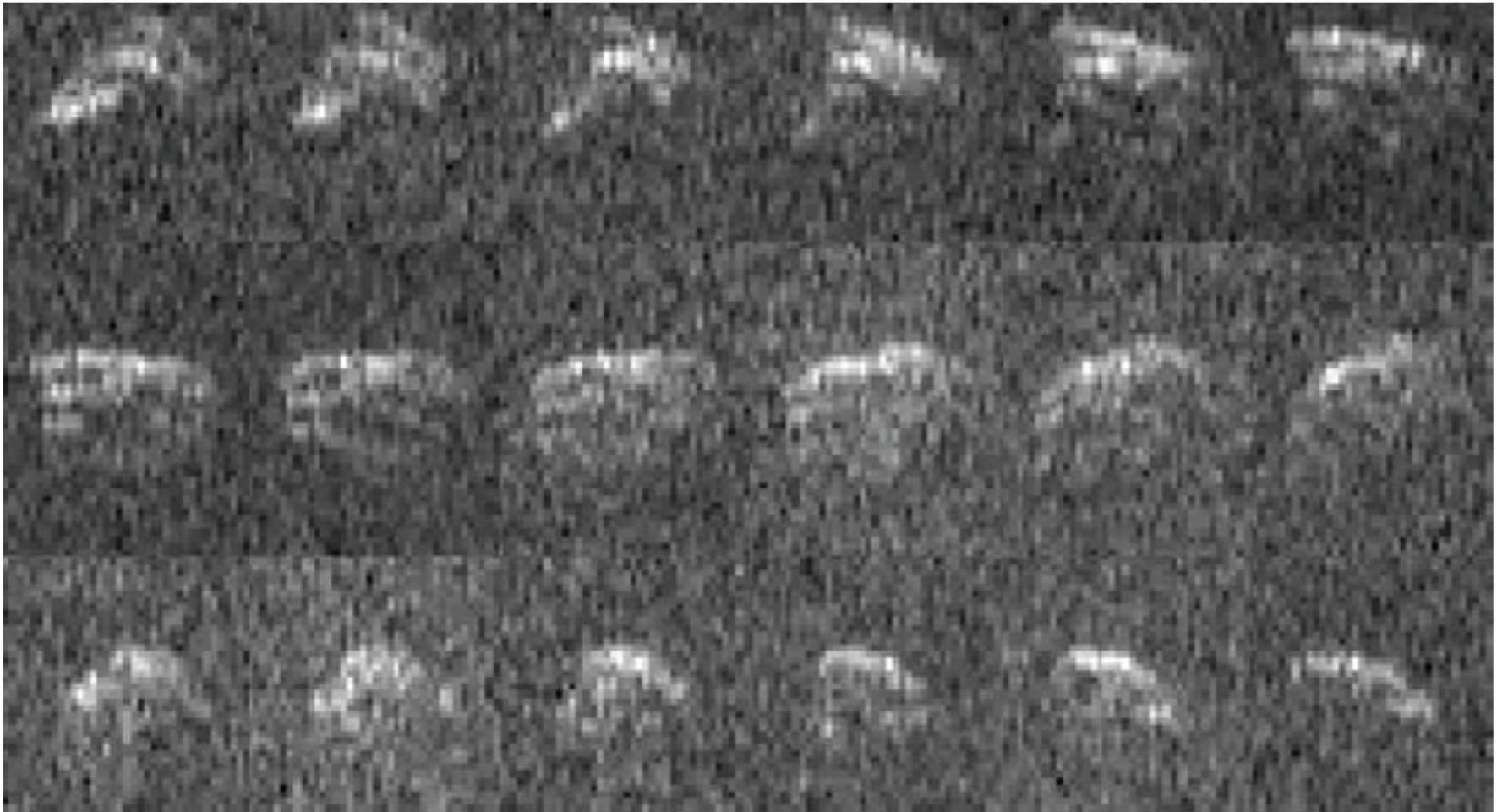
Updated Impact Footprint for Fragment



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Radar Images of Asteroid Fragment

First radar images reveal the asteroid fragment to be about 80 m in diameter:



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Impact Effects

- ▶ The fragment will enter the atmosphere at 16 km/s at an angle of 36 degrees from horizontal, releasing about 18 Megatons of energy, but a crater-forming impact is very unlikely
- ▶ The object will almost certainly explode in the atmosphere as an airburst, much like the Tunguska explosion of 1908